Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-20-51** **Date: 28-11-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08
Agency	:	Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/183/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, BBMP,
Bangalore.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-20-51** **Date: 24-12-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08
Agency	:	Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/183/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-11-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-20-51** **Date: 28-11-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08
Agency	:	Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/183/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-20-51 **Date: 28-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-20-51** **Date: 28-11-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08
Agency	:	Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.
Customer Reference	:	BBMP/EE/BTP/WO/183/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-20-51** **Date: 28-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R RUDRAPRASAD
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-20-51** **Date: 28-11-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt :

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-20-51** **Date: 28-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Assistant Executive Engineer
Kodigehalli Sub Division,
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Bangalore

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2020-01-20-51** **Date: 30-11-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 29-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-01-20-51** **Date: 09-12-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-12-19

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-01-20-51** **Date: 09-12-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-12-19

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	2.616	31570	200.9	6.4	5.9	7.4
2	Cover Slab-2	200.49	250.52	2.622	31564	202.3	6.4	6.0	7.5
3	Cover Slab-3	200.50	250.51	2.618	31567	201.5	6.4	5.9	7.4

Note:

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Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 14/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	150.09 X 151.15 X 151.19	22685	**8.506**	408.4	18.0	18.2
2	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	150.08 X 150.28 X 149.93	22554	**8.265**	408.0	18.1	
3	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	151.96 X 151.38 X 149.82	23003	**8.452**	425.6	18.5	

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Yelahanka Zone, B.B.M.P.,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-01-20-51** **Date: 04/01/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08
Agency	:	Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/183/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-12-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	149.62 X 151.91 X 150.52	22730	**8.399**	526.6	23.2	
2	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	151.59 X 150.08 X 151.77	22750	**8.348**	522.1	22.9	23.1
3	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	150.32 X 151.23 X 151.95	22733	**8.665**	523.8	23.0	

Note:
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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 14/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	150.40 X 151.90 X 150.36	22847	**8.506**	428.7	18.8	18.7
2	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	151.02 X 151.86 X 151.20	22935	**8.265**	432.3	18.8	
3	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	150.30 X 151.56 X 149.84	22780	**8.452**	420.7	18.5	

Note:
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FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig. Date

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 04/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	150.22 X 151.39 X 150.90	22741	**8.399**	526.0	23.1	23.0
2	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	150.75 X 149.78 X 151.15	22580	**8.348**	514.8	22.8	
3	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	150.83 X 150.72 X 151.84	22734	**8.665**	522.9	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 14/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	149.52 X 150.47 X 150.59	22498	**8.506**	411.1	18.3	18.3
2	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	151.53 X 150.54 X 151.84	22812	**8.265**	413.1	18.1	
3	Drain Bottom Slab Concrete	M20	07/12/2019	14/12/2019	151.36 X 149.15 X 149.55	22575	**8.452**	418.5	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 04/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	149.80 X 151.37 X 150.03	22674	**8.399**	539.0	23.8	23.3
2	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	149.71 X 151.68 X 150.03	22707	**8.348**	510.6	22.5	
3	Drain Bottom Slab Concrete	M20	07/12/2019	04/01/2020	151.46 X 151.98 X 150.90	23019	**8.665**	544.0	23.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 18/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-12-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/12/2019	18/12/2019	151.75 X 149.31 X 149.36	22658	**8.506**	425.5	18.8	18.6
2	Drain Side Wall Concrete	M20	11/12/2019	18/12/2019	150.97 X 151.67 X 151.23	22897	**8.265**	427.4	18.7	
3	Drain Side Wall Concrete	M20	11/12/2019	18/12/2019	150.03 X 150.11 X 149.25	22520	**8.452**	416.6	18.5	

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Technical Manager

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Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 08/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-12-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/12/2019	08/01/2020	152.00 X 150.19 X 150.47	22829	**8.399**	534.0	23.4	23.1
2	Drain Side Wall Concrete	M20	11/12/2019	08/01/2020	149.68 X 150.66 X 150.54	22551	**8.348**	497.4	22.1	
3	Drain Side Wall Concrete	M20	11/12/2019	08/01/2020	150.37 X 149.88 X 150.65	22538	**8.665**	535.9	23.8	

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Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-12-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/12/2019	18/12/2019	150.64 X 150.68 X 150.48	22699	**8.506**	420.5	18.5	18.6
2	Drain Side Wall Concrete	M20	11/12/2019	18/12/2019	151.17 X 151.87 X 151.87	22958	**8.265**	434.6	18.9	
3	Drain Side Wall Concrete	M20	11/12/2019	18/12/2019	149.99 X 151.13 X 150.32	22668	**8.452**	413.9	18.3	

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Lab ID : **CP-2020-01-20-51** **Date: 08/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-12-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/12/2019	08/01/2020	151.54 X 151.44 X 150.71	22949	**8.399**	542.4	23.6	23.5
2	Drain Side Wall Concrete	M20	11/12/2019	08/01/2020	149.65 X 150.47 X 150.10	22518	**8.348**	517.5	23.0	
3	Drain Side Wall Concrete	M20	11/12/2019	08/01/2020	149.53 X 151.59 X 151.79	22667	**8.665**	543.0	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	150.70 X 150.19 X 149.95	22635	**8.769**	577.3	25.5	25.6
2	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	150.51 X 149.64 X 149.88	22521	**8.000**	598.0	26.6	
3	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	150.49 X 149.88 X 150.63	22556	**8.245**	561.4	24.9	

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	150.80 X 150.37 X 151.10	22675	**8.544**	766.4	33.8	33.2
2	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	151.88 X 150.46 X 151.11	22851	**8.244**	732.9	32.1	
3	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	150.31 X 149.55 X 149.06	22479	**8.127**	756.9	33.7	

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	149.95 X 150.27 X 149.43	22533	**8.769**	577.4	25.6	25.7
2	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	149.36 X 150.07 X 150.62	22414	**8.000**	600.0	26.8	
3	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	151.08 X 151.71 X 149.97	22920	**8.245**	568.2	24.8	

Note:

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FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
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Date.....

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 13/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	151.91 X 150.90 X 150.79	22924	**8.544**	763.1	33.3	33.1
2	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	151.17 X 151.81 X 149.02	22949	**8.244**	747.1	32.6	
3	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	149.68 X 149.20 X 150.55	22333	**8.127**	747.5	33.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	151.32 X 149.97 X 151.55	22693	**8.769**	573.1	25.3	25.3
2	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	151.44 X 149.41 X 149.54	22626	**8.000**	599.1	26.5	
3	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	151.71 X 151.65 X 150.25	23006	**8.245**	555.0	24.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 13/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	149.50 X 151.11 X 151.57	22591	**8.544**	763.7	33.8	33.4
2	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	150.08 X 150.91 X 150.29	22649	**8.244**	735.6	32.5	
3	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	150.13 X 150.24 X 151.93	22554	**8.127**	763.3	33.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	149.70 X 149.23 X 150.82	22340	**8.769**	579.8	26.0	25.7
2	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	150.86 X 150.37 X 151.18	22685	**8.000**	603.3	26.6	
3	Cement Concrete Pavement	M30	16/12/2019	23/12/2019	149.66 X 150.13 X 151.64	22469	**8.245**	554.1	24.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 13/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	150.31 X 150.13 X 150.79	22566	**8.544**	764.2	33.9	33.3
2	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	149.86 X 149.32 X 149.70	22377	**8.244**	728.2	32.5	
3	Cement Concrete Pavement	M30	16/12/2019	13/01/2020	150.45 X 149.91 X 150.71	22555	**8.127**	758.2	33.6	

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QC ABSTRACT

NAME OF WORK: Providing SS Railing and other Improvements works to 10th Cross Right side and surrounding area 1st Block in ward No.67

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Kerb	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.61	2	2

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-01-20-51** **Date: 02-12-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08
Agency	:	Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/183/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	29-11-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	202	199	16240	31.317	1928.4	2005.4	Not less than 1800Kg/m^3
2	400	198	203	16078	33.720	2097.3		
3	399	203	201	16280	32.407	1990.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2020-01-20-51 Date: 02-12-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	201	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	202	201	
3	402	199	201	
4	399	203	201	
5	401	202	203	
6	401	203	203	
7	402	202	200	
8	399	202	199	
9	404	200	199	
10	402	202	203	
11	403	202	201	
12	403	203	201	
13	400	200	202	
14	400	202	200	
15	403	200	200	
16	402	199	203	
17	402	202	199	
18	399	201	203	
19	399	202	199	
20	399	200	203	
Average of 20	**401**	**201**	**201**	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2020-01-20-51 Date: 02-12-19

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80295	381.1	4.7	4.6
2	401	202	80799	368.9	4.6	
3	402	199	80050	359.1	4.5	
4	399	203	80989	371.5	4.6	
5	401	202	81155	363.0	4.5	
6	401	203	81425	373.8	4.6	
7	402	202	80914	388.5	4.8	
8	399	202	80538	381.7	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2020-01-20-51 **Date: 02-12-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08
Agency	:	Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/183/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-19
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	29-11-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	100	199	8000	33.339	4167.4	4112.0	Not less than 1800Kg/m^3
2	405	99	202	8099	33.588	4147.1		
3	402	98	200	7879	31.685	4021.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

Lab ID : CP-2020-01-20-51 Date: 02-12-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	99	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	399	98	202	
3	402	101	200	
4	403	100	199	
5	403	101	201	
6	399	99	199	
7	399	98	202	
8	400	100	200	
9	400	101	201	
10	402	102	203	
11	399	99	203	
12	399	98	200	
13	400	100	200	
14	400	102	202	
15	400	101	200	
16	401	99	201	
17	402	98	203	
18	403	98	200	
19	401	100	199	
20	400	101	200	
Average of 20	**401**	**100**	**201**	

Assistant Executive Engineer,
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Bangalore.

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Lab ID : **CP-2020-01-20-51** **Date: 02-12-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	99	39600	182.9	4.6	4.5
2	399	98	39122	172.1	4.4	
3	402	101	40619	178.1	4.4	
4	403	100	40321	180.2	4.5	
5	403	101	40711	174.7	4.3	
6	399	99	39529	173.1	4.4	
7	399	98	39119	186.9	4.8	
8	400	100	39966	176.0	4.4	

As per IS Requirements **(Table 2, Clause 5.1, 5.2 and 9.4)**

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Koramangala Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

****End of Report****

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-01-20-51** **Date: 20/12/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08
Agency	:	Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/183/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/12/2019	20/12/2019	149.40 X 149.30 X 149.44	22306	**8.861**	270.7	12.1	12.3
2	PCC	M15	13/12/2019	20/12/2019	150.64 X 151.70 X 149.39	22852	**8.151**	275.2	12.0	
3	PCC	M15	13/12/2019	20/12/2019	150.91 X 149.32 X 150.31	22533	**8.087**	283.6	12.6	

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Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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****End of Report****

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 10/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-12-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/12/2019	10/01/2020	150.79 X 151.66 X 150.87	22869	**8.938**	393.4	17.2	17.4
2	PCC	M15	13/12/2019	10/01/2020	149.66 X 149.15 X 150.70	22322	**8.221**	397.3	17.8	
3	PCC	M15	13/12/2019	10/01/2020	149.73 X 150.09 X 150.55	22473	**8.498**	389.7	17.3	

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Assistant Executive Engineer
Kodigehalli Sub Division,
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CIVIL PRO Sig..... Date..... BANGALORE

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 20/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-12-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/12/2019	20/12/2019	150.93 X 150.83 X 151.59	22766	**8.861**	285.7	12.6	12.4
2	PCC	M15	13/12/2019	20/12/2019	151.91 X 149.45 X 151.95	22703	**8.151**	280.2	12.3	
3	PCC	M15	13/12/2019	20/12/2019	150.90 X 150.93 X 149.63	22775	**8.087**	279.2	12.3	

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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
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****End of Report****

CIVIL Pro Sig. Date. BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-20-51** **Date: 10/01/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Angala Parameshwari Temple and Surroundings at Kodigehali Ward No.08

Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-12-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/12/2019	10/01/2020	149.73 X 149.75 X 150.17	22422	**8.938**	393.0	17.5	17.7
2	PCC	M15	13/12/2019	10/01/2020	151.90 X 151.73 X 150.51	23048	**8.221**	407.8	17.7	
3	PCC	M15	13/12/2019	10/01/2020	150.55 X 151.03 X 151.65	22738	**8.498**	404.6	17.8	

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Assistant Executive Engineer,
Kodigehalli Sub Division,
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Lab ID : **CP-2020-01-20-51** **Date: 20/12/2019**

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Address : Kodigehalli Sub Division, BBMP, Bangalore.

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Agency : Sri. Aswathnarayana #38, Chanappa Layout, sharadambanagara Jalahalli Village, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/183/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-12-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/12/2019	20/12/2019	149.70 X 151.77 X 150.68	22721	**8.861**	274.0	12.1	12.2
2	PCC	M15	13/12/2019	20/12/2019	149.69 X 149.64 X 149.80	22399	**8.151**	275.5	12.3	
3	PCC	M15	13/12/2019	20/12/2019	149.51 X 149.31 X 151.98	22325	**8.087**	273.2	12.2	

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-12-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/12/2019	10/01/2020	151.13 X 149.11 X 149.49	22535	**8.938**	405.5	18.0	17.8
2	PCC	M15	13/12/2019	10/01/2020	150.72 X 151.11 X 149.29	22774	**8.221**	405.4	17.8	
3	PCC	M15	13/12/2019	10/01/2020	151.83 X 151.04 X 149.03	22932	**8.498**	402.6	17.6	

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FOR CIVIL Pro.

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Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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